

Attorney:
RND/MKG
Draftsman:
Jerry L. Elberbee

Application:
System, Method And
Article Of
Manufacture To
Determine And
Communicate
Optical Lens Sizing
And Prescription
Information

Client:
Tom Yancy

File Number:
TOM995/99795

Sheet Number:
of

Date:
11/23/99

Revision:
3

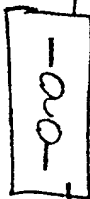
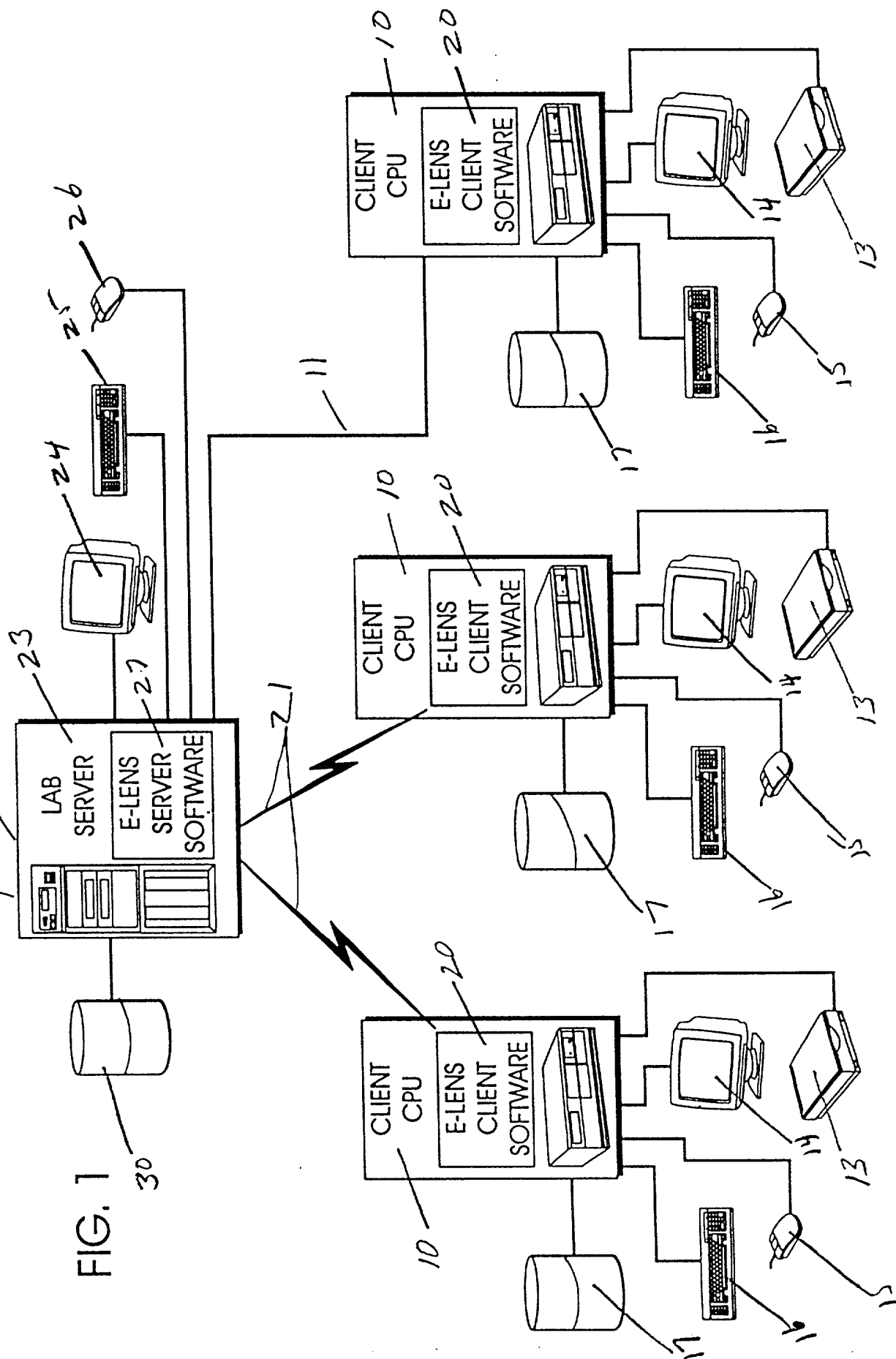


FIG. 1



33



FIGURE 3

Determining Scanned Image First Axis Centerpoint of Reference

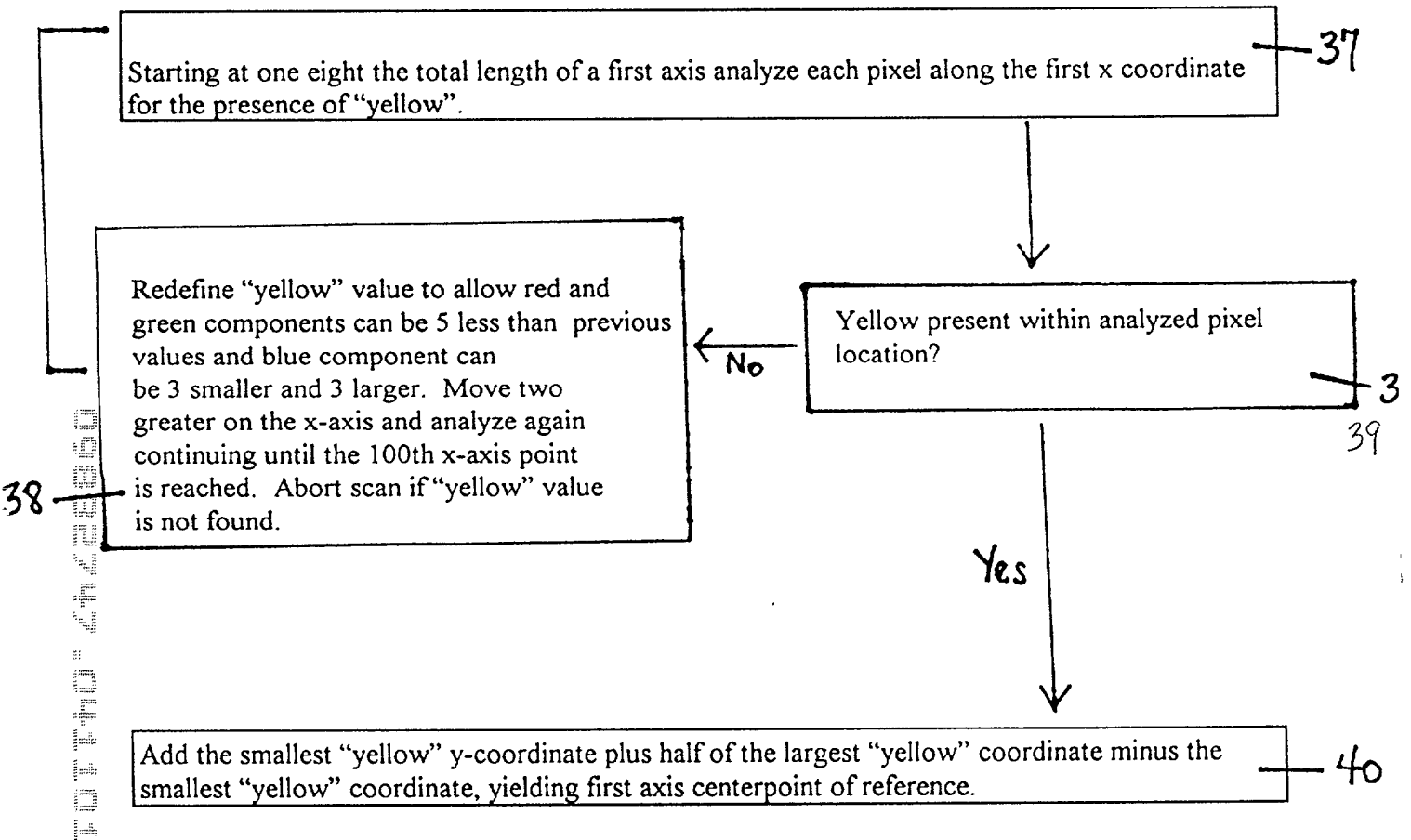


FIGURE 4

Determining Scanned Image Second Axis Centerpoint of Reference

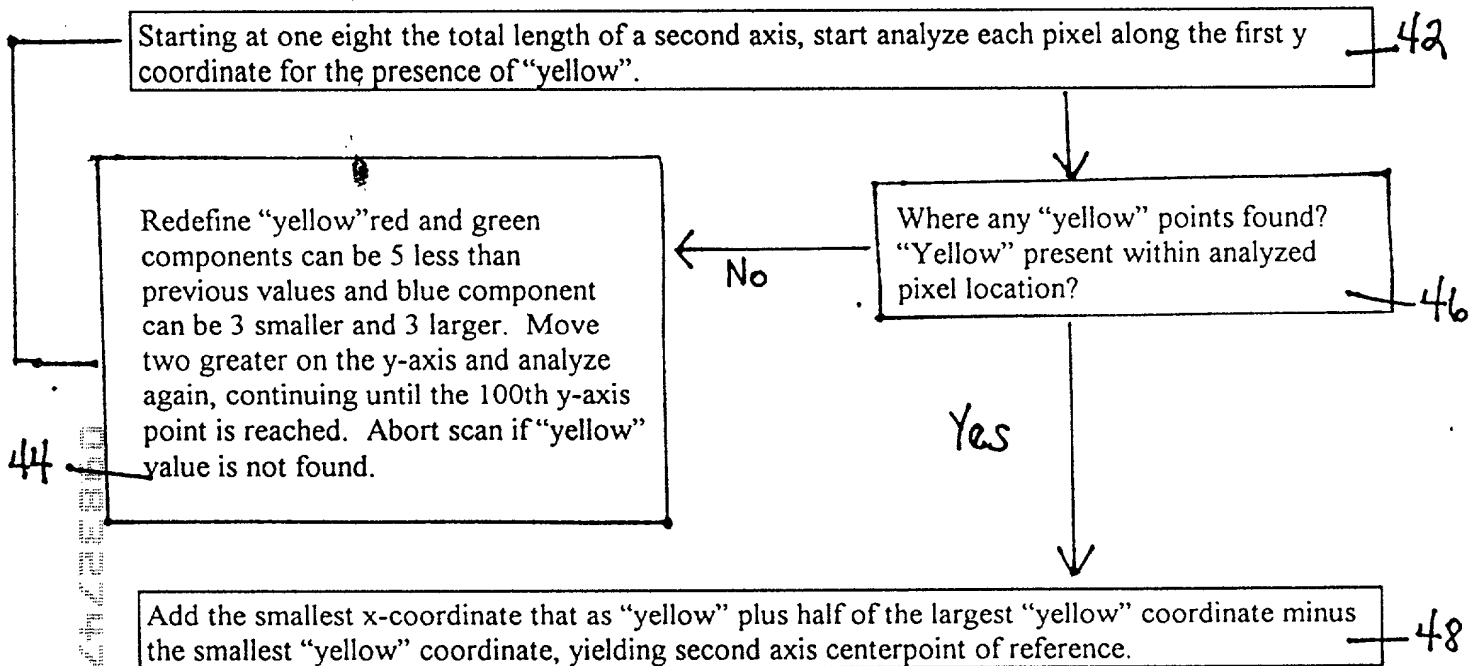


FIGURE 5

Determining a Starting Radius

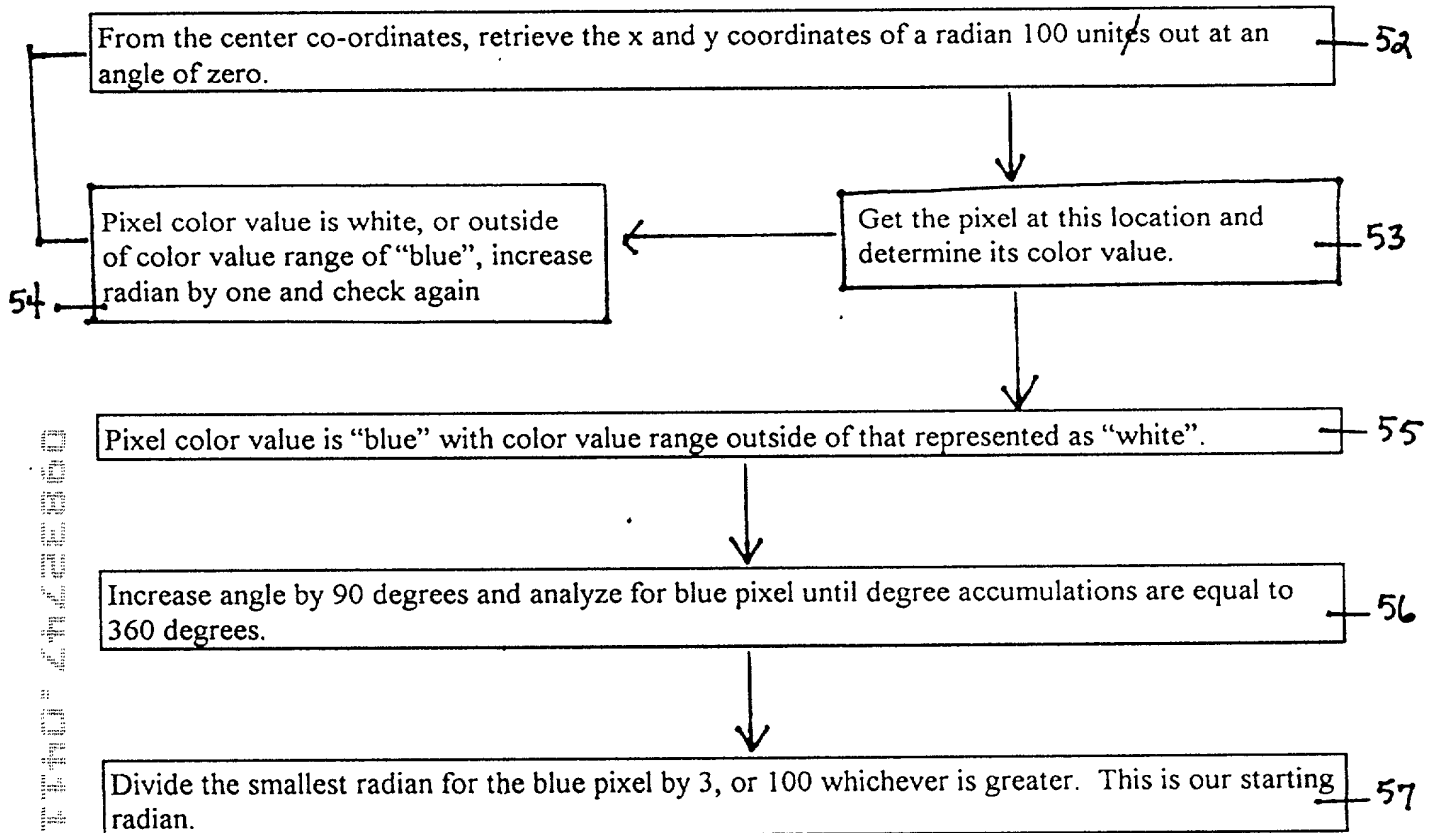


FIGURE 6

Centering a Scanned Image Shape

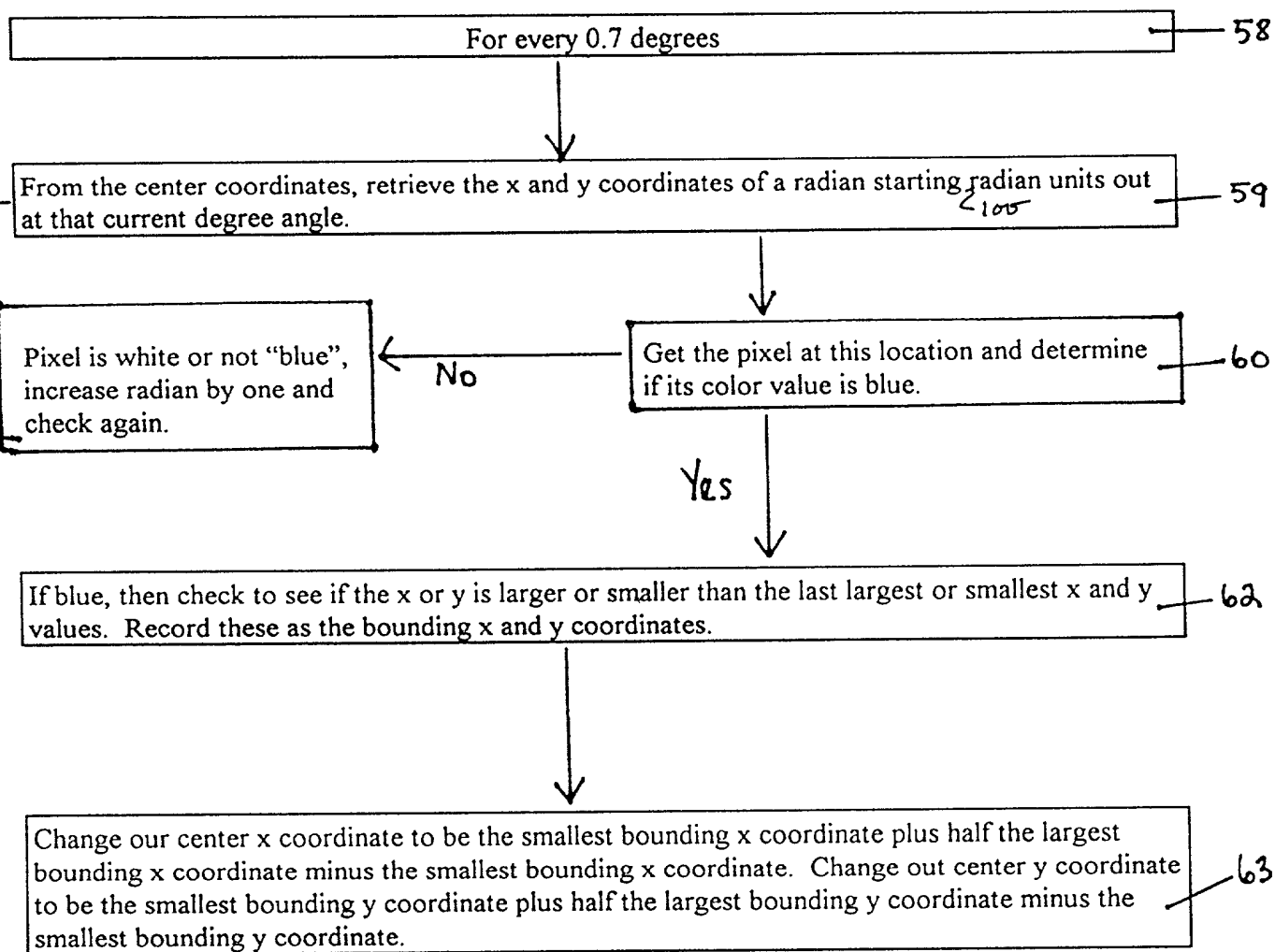


FIGURE 7

Determining a Scanned Image Radial Shape

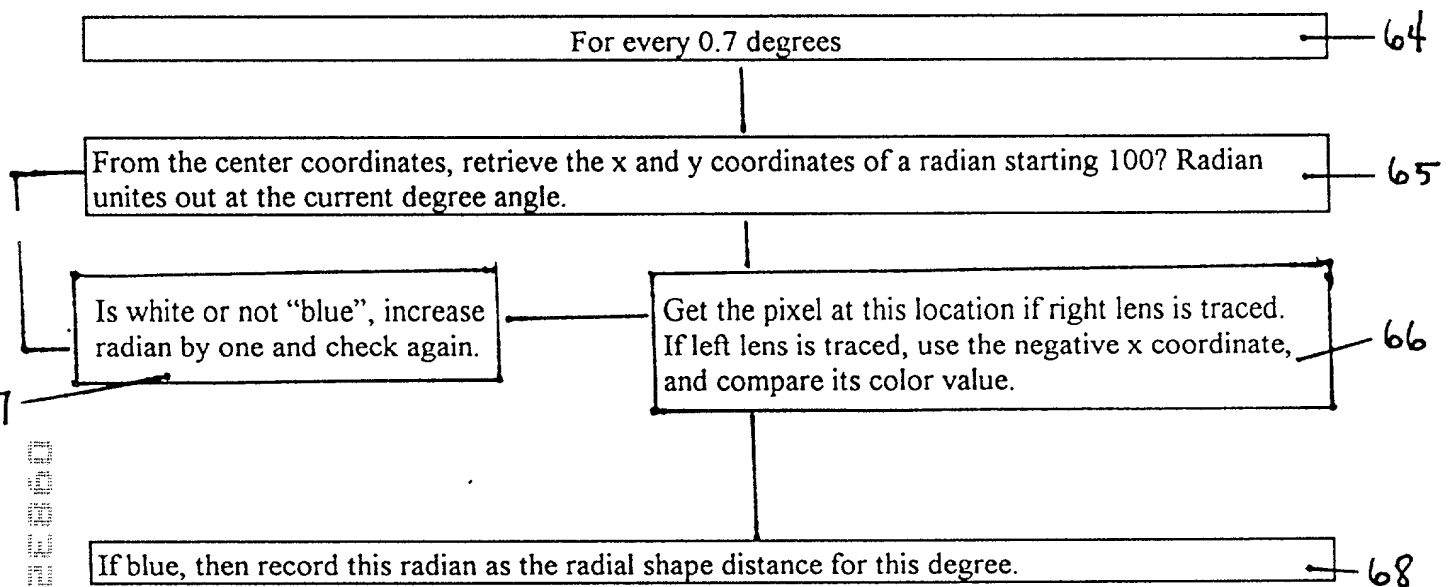


FIGURE 8

Determining a Scanned Image Radial Size

For every 0.7 degrees

72

For the radial shape distance for this degree, subtract the figure provided by calibration. This reduction eliminates the extra size that the pen creates.

Divide each radian by the configurable DPI setting of the scanner, example 400, this is our conversion to inches.

73

Convert inches to millimeters by dividing by 0.039370. Then multiply by 100. This gives each radian in mm*100.

FIGURE 9

Smoothing a Scanned Image Radial Shape

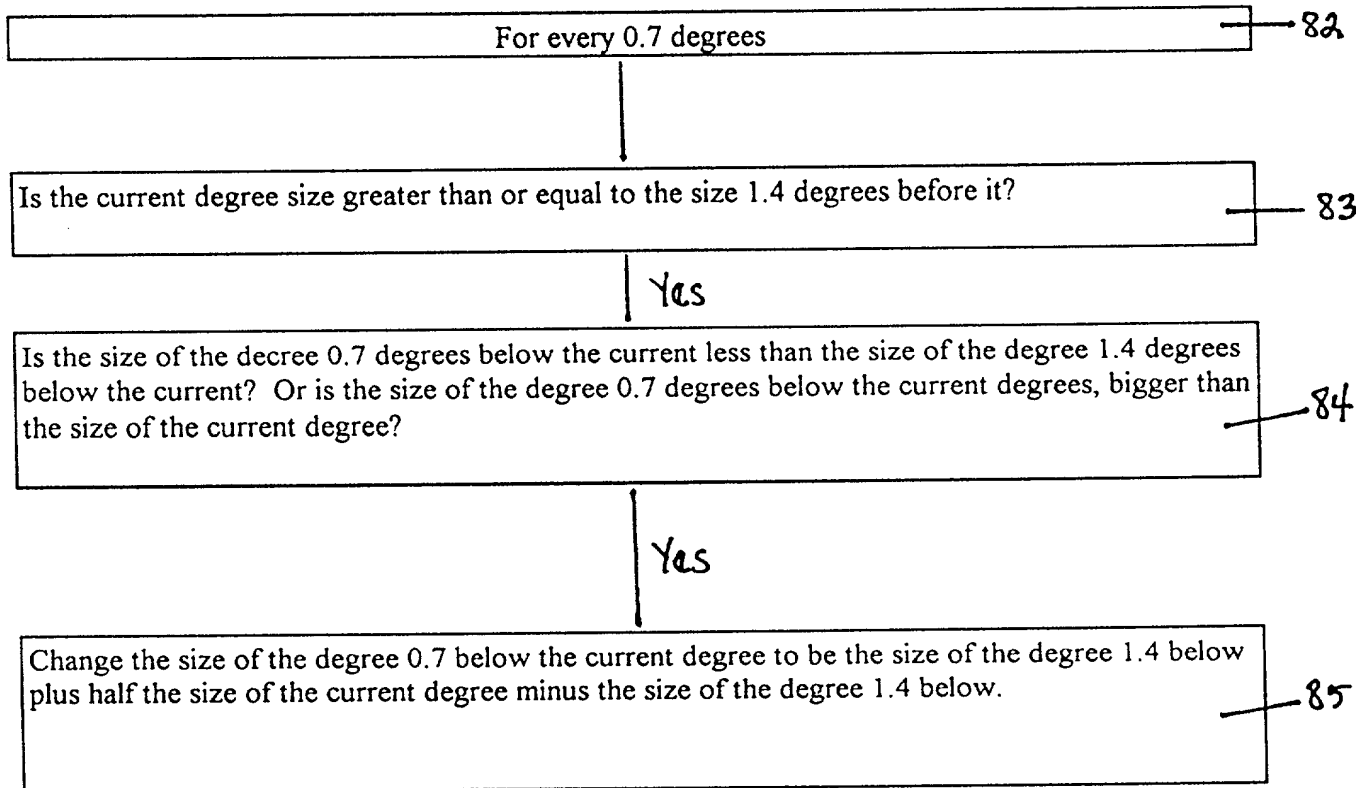


FIGURE 10

Modify Size of Derived Radial Shape

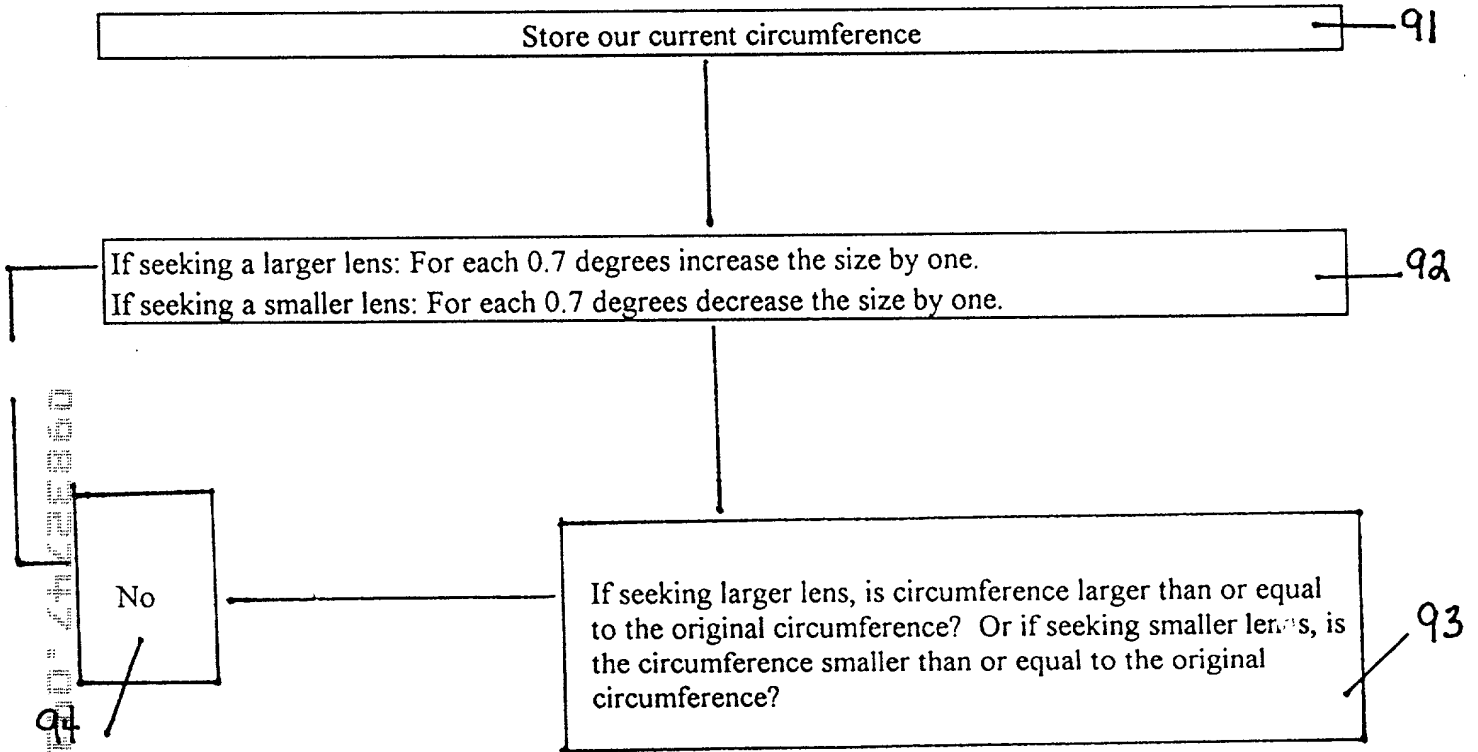
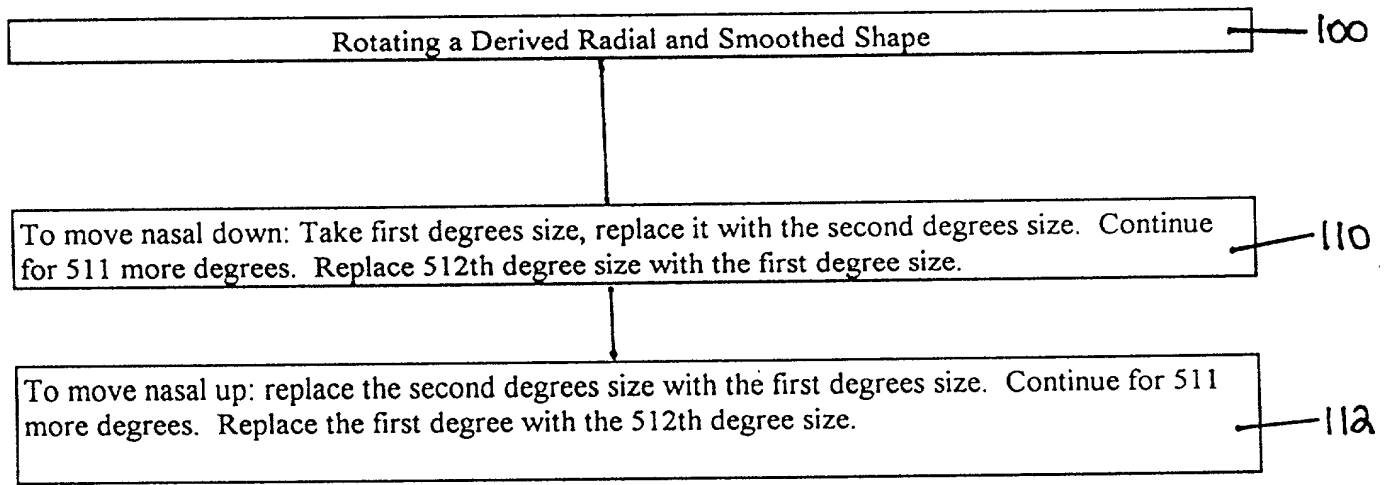


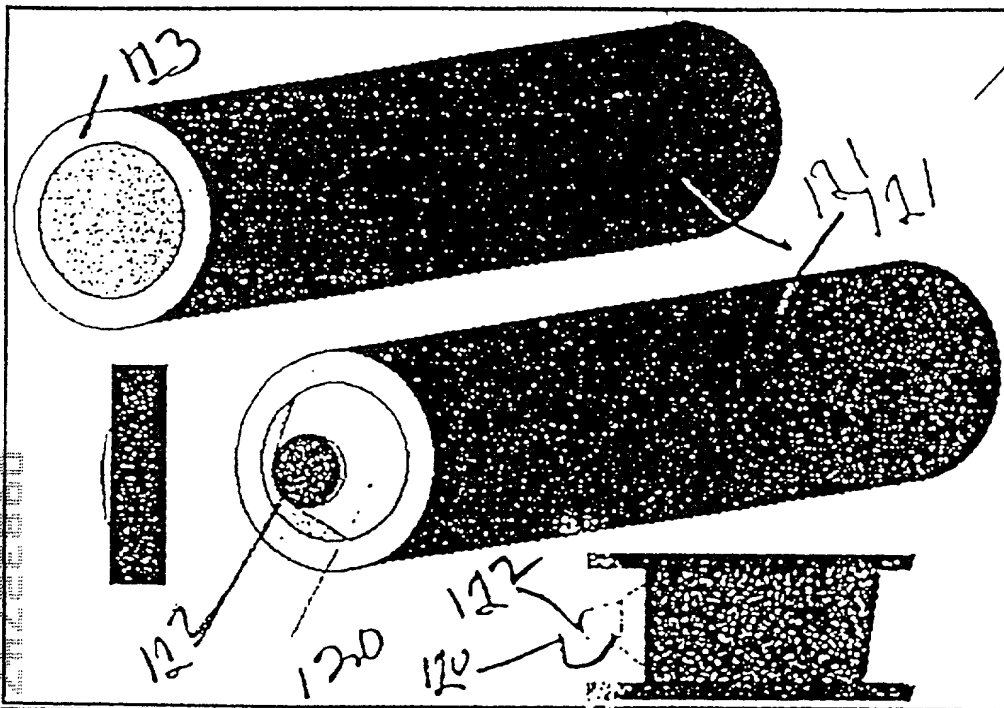
FIGURE 11



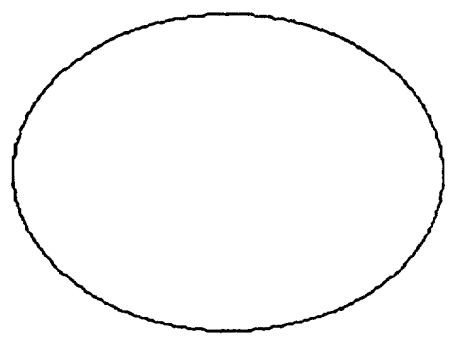
Downloaded from www.ascelibrary.org

Fig 12/11

Description
 Pen
 a pla
 cons
 edge
 pres



Place trial le
 paper.




[illegible]

eLens v0.9 Copyright 1999 WinVoice Development

New	Edit	Print	Send	Delete	Config	E-Mail	Remind	Help	About	Exit
-----	------	-------	------	--------	--------	--------	--------	------	-------	------

Please perform calibration now.



Frame Name	J66RV00
Manufacturer	DBL70S200CRL576
Frame Color	A58B38GFD159
Eye Size	00 DBL 17.0
Supplier	Lenses only
Material	Type:
Lens	Color:
Tint	

1999-11 November

<Current Orderlist -- Orders not yet sent>

Berenson, John
Fullerton, Cindy
Hardin, Larry
Hill, Craig
McGown, George

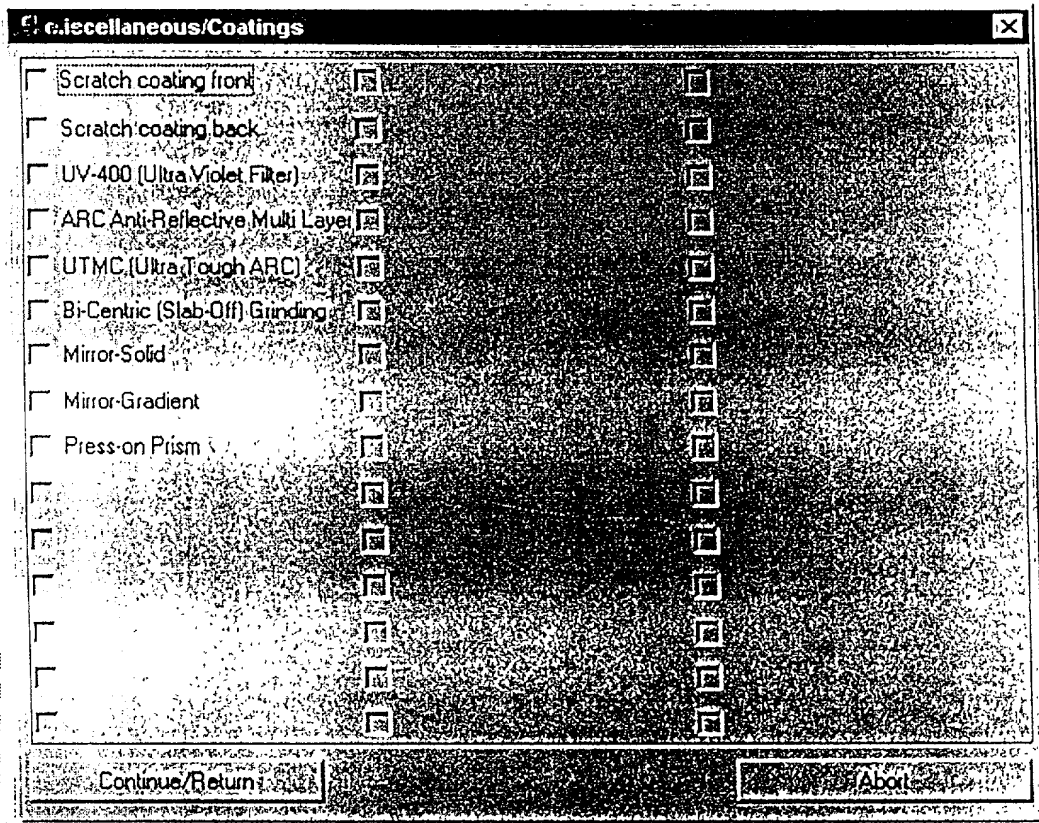
Figure 13

① MAIN SCREEN

e.lens Order (Specialty Optical Services)									
Patient Name Smith, Mary				Title Titl		<input checked="" type="radio"/> Both <input type="radio"/> Right <input type="radio"/> Left			
<input checked="" type="radio"/> Lenses only <input type="radio"/> Uncut <input type="radio"/> Lab supplied <input type="radio"/> No frame <input checked="" type="radio"/> Glass									
Frame Name Shawna		Shape 		Manufacturer Kenmark		Model 511			
Frame Color Dem		Type Metal							
Eye Size 57		DBL 19.00		Temple 0.00					
Material 01 CR-39		Type 02 Bifocal		Lens 02 FT 28		Color 01 Transitions III G			
Lab Tint 		Type 							
Sph	Cyl	Axis	Add	PD (mm)	IPD	NIPD	DB Center		
R -0.25	+0.00	180	+1.00	+0.00	+30.00	+28.50	+0.00		
L -0.50	-1.00	080	+1.00	+0.00	+30.00	+28.50	+0.00		
Seg Height		Horiz Prism		Vert Prism					
R +25.00	High	+0.00		+0.00					
L +25.00	High	+0.00		+0.00					
Comment We need this order ASAP								<input checked="" type="checkbox"/> Print Invoice	
Save		Misc/Coatings		Advanced		Add Patient Info		Abort	

② NEW ORDER & EDIT SCREEN

Figure 14



③ Misc screen

Figure 15

e.lens Order(Specialty Optical Services)

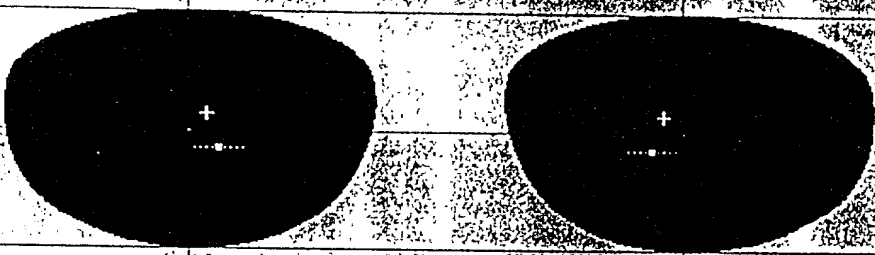
		DBL 17.0 Crc 131.09 A 48.7 B 32.8 E.D. 46.3		+ Optical center + Geometric center + Seg height
		Opt Cen R +18.41 L +18.41 Geo Cen +16.41 Seg H R +14.00 L +14.00		
Nasal Up	Nasal Down	Rotation: 0 Size: 0	Increase Size	Decrease Size
DBL 17.00	FPD R +30.00 L +30.00	NPD R +28.50 L +28.50		
Return with Modifications		Abort		

Figure 16